

**MASTER OF COMPUTER
APPLICATIONS / BACHELOR OF
COMPUTER APPLICATIONS
(MCA/BCA) (REVISED)**

**Term-End Examination
December, 2024**

**MCS-022 : OPERATING SYSTEM CONCEPTS AND
NETWORKING MANAGEMENT**

Time : 3 Hours

Maximum Marks : 100

Weightage : 75%

Note : (i) *Question No. 1 is compulsory.*

(ii) *Attempt any **three** questions from the
rest.*

1. (a) What is the basic philosophy of
X-windows ? How is it different from the
rest of GUIs ? 5

- (b) What is an operating system ? Briefly explain multiprogramming operating system. 8
- (c) Explain any *three* features of Linux. 6
- (d) What is home directory in Linux system ? Explain with the help of an example. 4
- (e) What is peer-to-peer network ? Is Windows 2000 suitable for peer-to-peer network ? Explain. 5
- (f) Briefly explain services of Windows 2000 server. 6
- (g) Explain goals of computer security. 6
2. (a) What is security breach in computer system ? Classify various types of security breach and explain. 10

- (b) What is EFS service ? Describe the concept of encryption using EFS services. 5
- (c) Briefly explain functionality of Graphical User Interface (GUI). 5
3. (a) Explain spooling with the help of a example. 5
- (b) Explain real-time operating system and its applications. 5
- (c) What is Network topology ? Explain Mesh topology and its advantages. 10
4. (a) What is modem ? Explain any *four* types of modem. Also, explain any *four* features of modems. 10
- (b) What is Domain Name System (DNS) ? Explain DNS design goals and DNS design principles. 10

5. Write short notes on the following : $4 \times 5 = 20$

- (a) File Transfer Protocol
- (b) Users administration in Windows 2000
- (c) Cryptography
- (d) IPSec framework

x x x x x x x